

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 07-235292

(43)Date of publication of application : 05.09.1995

(51)Int.Cl. H01M 4/58 H01M 4/02 H01M 10/40

(21)Application number : 06-22284 (71)Applicant : MATSUSHITA

(22)Date of filing : 21.02.1994 (72)Inventor : KAZUHIRO OKAMURA
 KAORU INOUE
 JYUNNICHY YAMAURA

CLAIMS

[Claim(s)]

[Claim 1] The nonaqueous rechargeable battery using cathode active material which consists of Li_xNiO_2 ($0 < x \leq 1$) coated with at least one sort Li_xCoO_2 ($0 < x \leq 1$) and Li_xMnO_2 ($0 < x \leq 1$).

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[The purpose of this invention]

To offer the nonaqueous rechargeable battery that has better cycleability and good life by control the reaction with electrolyte.

[Example]

[0014]

1. LiNiO_2 was obtained by a well-known method.
2. LiNiO_2 powder + water-soluble salt containing the transition metals (such as $\text{Co}(\text{NO}_3)_2$ and $\text{Mn}(\text{NO}_3)_2$ were mixed in aqueous solution.
3. The suspension + alkali salt (such as LiOH) were mixed.
So, we obtained LiNiO_2 coated with the transition metals containing material.
4. The coated material was washed and dried.
5. The coated material + lithium hydroxide is heated for about 2 to 3 hours.

Spattering and mechanochemical coating are mentioned as other methods to obtain the coated material.